

CLASSIFICATION:								
EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /				BA-4		R-1 ITEM NOMENCLATURE 0603857N - Joint Fires Integration and Interoperability Team (JFIIT)		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Total PE Cost	13.289	15.451	0.000	0.000	0.000	0.000	0.000	
2691 - Joint Fires Integration and Interoperability Team	13.289	15.451	0.000	0.000	0.000	0.000	0.000	
Quantity of RDT&E Articles								
<p>In accordance with the FY 05 National Defense Authorization Act, RDT&E funding for Joint Forces Command transfers from Navy to Defense-Wide beginning in FY 07. The new program element for 0603857N is 0604857D under BA 4.</p> <p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: JFIIT conducts assessments and evaluations of combat identification capabilities in order to reduce the risk of fratricide and other friendly fire incidents. These JFIIT events support the U.S. JFCOM mission of joint concept development and experimentation as directed in the Secretary of Defense's (SECDEF's) Defense Planning Guidance. JFIIT events are also an integral part of fulfilling JFCOM's responsibility outlined in the SECDEF's Transformation Planning Guidance (TPG) to measure transformation progress through experimentation and evaluation of findings. Capabilities assessments and evaluations of combat identification during these field evaluations are conducted in the following combat mission areas: surface-to-surface, air-to-surface, surface-to-air, and air-to-air. These mission areas may be evaluated at a single exercise or at several different venues during the year. Venue selection and evaluation of a specific mission area are dependent on force availability within a particular exercise. Evaluation of each specific mission area may require instrumentation of all participants influencing execution of missions within that mission area. Participants, both Blue Forces and Opposing Forces (OPFOR) including aircraft, ships and land based assets to include individual soldiers and Marines may be fully instrumented. Instrumentation provides time, space, position information and shot pairing for real-time data collection and subsequent detailed analysis. This detailed analysis is required to support findings and recommendations that in turn provide solutions to Combatant Commanders' identified combat identification deficiencies. Contractor support is required for instrumentation installation and operation as well as follow-on analysis of the data. A realistic OPFOR will enhance each mission area to generate valid combat identification scenarios and joint fires capabilities assessments. This OPFOR consisting of ground, air and naval forces will be realistic OPFOR equipment whenever practical and can be leased and transported from their home base to the various exercise venues.</p> <p>On 24 February 2005, Joint Combat Identification Evaluation Team (JCIET) name changed to Joint Fires Integration and Interoperability Team (JFIIT).</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under DEMONSTRATION AND VALIDATION because it includes efforts to evaluate integrated technologies in a realistic operational environment to assess the performance potential of current Tactics, Techniques, and Procedures (TTP), weapons systems, and helps expedite technologies that meet joint warfighters' needs.</p>								

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<p>(U) C. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 40%;"></th> <th style="text-align: right; width: 15%;">FY05</th> <th style="text-align: right; width: 15%;">FY06</th> <th style="text-align: right; width: 15%;">FY07</th> </tr> </thead> <tbody> <tr> <td>(U) Funding:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY 06 President's Budget</td> <td style="text-align: right;">13.475</td> <td style="text-align: right;">15.696</td> <td style="text-align: right;">16.782</td> </tr> <tr> <td>FY 07 President's Budget</td> <td style="text-align: right;">13.289</td> <td style="text-align: right;">15.451</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">-0.186</td> <td style="text-align: right; border-top: 1px solid black;">-0.245</td> <td style="text-align: right; border-top: 1px solid black;">-16.782</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td>SBIR</td> <td style="text-align: right;">-0.179</td> <td></td> <td></td> </tr> <tr> <td>Department of Energy Transfer</td> <td style="text-align: right;">-0.010</td> <td></td> <td></td> </tr> <tr> <td>Nuclear Physical Security</td> <td style="text-align: right;">0.003</td> <td></td> <td></td> </tr> <tr> <td>SEC. 8026(F) Federally Funded R&D Centers</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">-0.010</td> <td></td> </tr> <tr> <td>SEC. 8125 Revised Economic Assumptions</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">-0.071</td> <td></td> </tr> <tr> <td>Congressional Action 1% Reduction</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">-0.164</td> <td></td> </tr> <tr> <td>Congressionally Directed Transfer of JFCOM to Defense-Wide</td> <td></td> <td></td> <td style="text-align: right;">-16.782</td> </tr> <tr> <td>Subtotal</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-0.186</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-0.245</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-16.782</td> </tr> </tbody> </table> <p style="margin-top: 20px;">(U) Schedule: Not Applicable</p> <p style="margin-top: 20px;">(U) Technical: Not Applicable</p>					FY05	FY06	FY07	(U) Funding:				FY 06 President's Budget	13.475	15.696	16.782	FY 07 President's Budget	13.289	15.451	0.000	Total Adjustments	-0.186	-0.245	-16.782	Summary of Adjustments				SBIR	-0.179			Department of Energy Transfer	-0.010			Nuclear Physical Security	0.003			SEC. 8026(F) Federally Funded R&D Centers	0.000	-0.010		SEC. 8125 Revised Economic Assumptions	0.000	-0.071		Congressional Action 1% Reduction	0.000	-0.164		Congressionally Directed Transfer of JFCOM to Defense-Wide			-16.782	Subtotal	-0.186	-0.245	-16.782
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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA4																	
<p>(U) D. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Line Item No. & Name</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2005</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2006</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2007</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2008</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2009</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2010</th> <th style="text-align: center; border-bottom: 1px solid black;">FY 2011</th> </tr> </thead> <tbody> <tr> <td style="padding-top: 10px;">Not Applicable</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) E. ACQUISITION STRATEGY:</p> <p>FY 2005-06. Five-year sole-source (one-year basic with four one-year options) contracts were awarded to SAIC and BAE SYSTEMS on 1 April 2002 (MEVATEC was bought by BAE in April 03, resulting in name change only) to support JFIIT (formerly named JCIET). The first year option was awarded on 1 April 2003 for both contracts. Second year option commenced November 2004. A two-year sole-source contract was awarded on 16 May 03, to Applied Data Trends, Inc. (ADTI), to provide computer-generated graphic display (Tactical Office software) support. A contract was awarded to Airborne Tactical Advantage Company (ATAC), on 12 May 03, to provide four foreign fighter-type aircraft to support JFIIT (formerly named JCIET) August 2003 event at Gulfport, MS. Efforts are underway to compete a new contract requirement for JFIIT (formerly named JCIET) to be awarded during FY 2006 (one year basic with four one-year options). JFIIT will continue to utilize competitive and sole-source contract procedures, to include reviewing Government agencies, to determine the best vendor to meet JFIIT requirements, at the best value.</p> <p>(U) F. MAJOR PERFORMERS:</p> <p>NONE</p> <p>(U) G. PERFORMANCE METRICS:</p>		Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Not Applicable							
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011										
Not Applicable																	

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

PROJECT NUMBER AND NAME

RDT&E, N / BA-4

0603857N - Joint Fires Integration and Interoperability Team (JFIIT) 2691 - Joint Fires Integration and Interoperability Team (JFIIT)

(U) B. Accomplishments/Planned Program

Field Evaluations	FY 05	FY 06	FY07	
Accomplishments/Effort/Subtotal Cost	2.889	4.660	0.000	
RDT&E Articles Quantity				

JFIIT conducts assessments and evaluations of combat identification capabilities in order to reduce the risk of fratricide and other friendly fire incidents. Capabilities assessments and evaluations of combat identification during these field evaluations are conducted in accordance with and in support of the Defense Planning Guidance and Transformation Planning Guidance. Evaluations are conducted in the following combat mission areas: surface-to-surface, air-to-surface, surface-to-air, and air-to-air. These mission areas may be evaluated at a single exercise or at several different venues during the year. Venue selection and evaluation of a specific mission area are dependent on force availability within a particular exercise. Evaluation of each specific mission area may require full instrumentation of all participants influencing execution of missions within that mission area. All participants, both Blue Forces and Opposing Forces (OPFOR) including aircraft, ships and land based assets to include individual soldiers and Marines may be fully instrumented. Instrumentation provides time, space, position information and shot pairing for real-time data collection and subsequent detailed analysis. This detailed analysis is required to support findings and recommendations that in turn provide solutions to Combatant Commander's identified combat identification deficiencies. Contractor support is required for instrumentation installation and operation as well as follow-on analysis of the data. A realistic OPFOR is requested within each mission area as per direction outlined in Director, Force Transformation directive to generate valid joint fires and combat identification scenarios. This OPFOR consisting of ground, air and naval forces will be realistic OPFOR equipment whenever practical and can be leased and transported from their home base to the various exercise venues.

FY 2005 Accomplishments: In 2005, JFCOM expanded JFIIT's charter to incorporate evaluation requirements across the spectrum of Joint Fires. JFIIT has accomplished numerous Joint Fires evaluations and related analysis events as well as support for other Joint Fires activities. JFIIT supported the analysis of Joint Fires in conjunction with the Joint National Training Capability Integrated Training Event at Joint Red Flag 05. JFIIT collected and analyzed data and provided real-time and post mission training feedback to exercise participants. JFIIT also conducted a Reference Point Method Quick-Look Operational Study of laser range pointer inaccuracies and fielded a safety message and corrective actions to the Services. In addition, JFIIT was also tasked to support the CCID ACTD 2005 experiment conducted in September 2005 at Salisbury Plains in the United Kingdom.

FY 2006 Plan: JFIIT will conduct Joint Fires and combat identification and interoperability evaluations in conjunction with JFCOM test and evaluation events in the areas of surface-to-surface, air-to-surface, surface-to-air, and air-to-air. Many JFIIT operations will require full instrumentation of all blue force and opposing force participants. All platforms including aircraft, ships at sea, and land based assets will be fully instrumented. JFIIT evaluations will require full instrumentation of ground maneuver mounted and dismounted elements, airborne platforms, ships at sea and an opposing force (OPFOR) air and ground force. Instrumentation provides time, space, position information and shot pairing for real time casualty assessment and kill removal and for post-mission and post-evaluation analysis. The data collected from the instrumentation will point to solutions to combat ID deficiencies. In accordance with OSD Director of Force Transformation policy guidance, a realistic OPFOR is employed in support of the exercise. JFIIT is also directed by charter to provide support to promising Combat Identification enhancements or joint fires initiatives.

JFIIT Support	FY 05	FY 06	FY07	
Accomplishments/Effort/Subtotal Cost	1.487	1.532	0.000	
RDT&E Articles Quantity				

FY 2005 Accomplishments: A tenant at Eglin AFB, JFIIT received base support to include: utilities, cleaning, communications, printing, shipping and vehicles. JFIIT maintained and upgraded analytical capabilities with software and hardware improvements. The following major documents were published in preparation for and as a result of Field Evaluations: Evaluation Plan, Spin-Up Plan, BLUFOR and OPFOR Playbooks, National Technical Means Assessment, Redeployment Plan, Quick Look Report, and the Final Report. Briefings on findings and recommendations were prepared and made available for presentation to the Joint Staff, the Services and the Combatant Commanders. JFIIT contracted for Technical and Acquisition Management Support through a Host Base contract vehicle.

FY 2006 Plan: Continuing base support will be required.

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(U) B. Accomplishments/Planned Program				
Annual Support Contracts	FY 05	FY 06	FY07	
Accomplishments/Effort/Subtotal Cost	8.507	8.847	0.000	
RDT&E Articles Quantity				
<p>FY 2005 Accomplishments: JFIIT technical and support manpower for planning, execution, analysis and reporting for combat identification capabilities assessment, findings and recommendations were provided through three Advisory and Assistance Support contracts. JFIIT events were developed to mirror real world joint combat operations. JFIIT analyzed participant command and control systems, tactical displays, voice and data link communications, identification systems and engagement decisions to determine causes of fratricide and assist in developing findings and recommended solutions. Overall combat effectiveness to include target engagements, lost shot opportunities and missed targets were also evaluated and analyzed. A white force (evaluation control) network was designed and constructed for real-time mission monitoring of evaluation execution. A classified network was also designed and constructed to support participants at different geographical locations in the conduct and debrief of the daily missions at the SECRET level to allow participants the opportunity to discover, learn, and adjust Tactics, Techniques and Procedures (TTP) and systems performance for the subsequent mission.</p> <p>FY 2006 Plan: JFIIT will continue to depend on advisory and support contract manpower for the planning, execution, analysis and reporting for combat identification capabilities assessments, findings and recommendations to assist in developing solutions to prevent future fratricide during real world joint combat operations. The avenues for such may consist of National Training Center, Weapons Tactics Instruction, Joint Readiness Training Center and various other events.</p>				
Travel and Conferences	FY 05	FY 06	FY07	
Accomplishments/Effort/Subtotal Cost	0.406	0.412	0.000	
RDT&E Articles Quantity				
<p>FY 2005 Accomplishments: JFIIT hosted and attended numerous planning conferences to include Airspace, OPFOR, Initial Planning, Mid-Planning and Final Planning. Warfighter participants were an integral part of the planning process including scenario development and preparation for interoperability between the services. Site visits were required to prepare for events and were conducted as necessary. The JFIIT staff also provided technical and operational support to forums dealing with combat ID and friendly fire issues.</p> <p>FY 2006 Plan: JFIIT will host and attend numerous planning conferences and site visits in preparation for National Training Center, Weapons Tactics Instruction, Joint Readiness Training Center and various other events. Additionally, JFIIT will provide Subject Matter Experts to various forums.</p>				

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Exhibit R-3 Cost Analysis (page 1)

DATE:

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APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

PROJECT NUMBER AND NAME

RDT&E, N / BA-4

0603857N - Joint Fires Integration and Interoperability Team (JFIIT) 2691 - Joint Fires Integration and Interoperability Team (JFIIT)

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	0.000
Ancillary Hardware Development											0.000	0.000
Systems Engineering											0.000	0.000
Licenses											0.000	0.000
Tooling											0.000	0.000
GFE											0.000	0.000
Award Fees											0.000	0.000
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	0.000

Remarks:

Development Support											0.000	0.000
Software Development											0.000	0.000
Training Development											0.000	0.000
Integrated Logistics Support											0.000	0.000
Configuration Management											0.000	0.000
Technical Data											0.000	0.000
GFE											0.000	0.000
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000

Remarks:

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Exhibit R-3 Cost Analysis (page 2)

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0603857N - Joint Fires Integration and Interoperability Team (JFIIT) 2691 - Joint Fires Integration and Interoperability Team (JFIIT)

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Evaluation Other Costs	MIPR	Various	17.052	2.002	07/05	3.631	03/06					
Operations Costs/Research	MIPR	JFIIT/Various	6.014	1.487	07/05	1.660	03/06					
Developmental Test and Evaluation	MIPR	Various	4.650	0.530	08/05	0.538	04/06					
Travel and Conferences	MIPR	JFIIT/Various	2.835	0.406	09/05	0.412	05/06					
Operational Test and Evaluation	SS/T&M	SAIC, BAE, CNA / Eglin AFB	36.494	8.507	11/04	8.847	06/06					
Operational Test and Evaluation	CPAF	TAMS / Eglin AFB	0.695	0.357	10/04	0.363	06/06					
Subtotal T&E			67.740	13.289		15.451						

Remarks:

Contractor Engineering Support												
Government Engineering Support												
Program Management Support												
Travel												
Subtotal Management			0.000	0.000		0.000						

Remarks:

Total Cost			67.740	13.289		15.451						
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Remarks:

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EXHIBIT R4, Schedule Profile

DATE:

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RDTE&E, N /**BA-4**

0603857N - Joint Fires Integration and Interoperability Team (JFIIT)

2691 - Joint Fires Integration and Interoperability Team (JFIIT)

Fiscal Year	2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones																												
Prototype Phase																												
System Development (e.g., Radar System dev.)																												
Equipment Delivery (e.g., EDM Radar Delivery)																												
Software 1XXSW Delivery 2XXSW Delivery																												
Test & Evaluation Milestones																												
Operational Test																												
Planning																												
Publications																												
Production Milestones																												
LRIP I																												
LRIP II																												
FRP																												
Deliveries																												

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Exhibit R-4a, Schedule Detail						DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RD8&BA-4	0603857N - Joint Fires Integration and Interoperability Team (JFIIT)				2691 - Joint Fires Integration and Interoperability Team (JFIIT)			
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Prototype Phase								
System Design Review (SDR)								
Milestone II (MSII)								
Contract Preparation								
Software Specification Review (SSR)								
Preliminary Design Review (PDR)								
System Development								
Critical Design Review (CDR)								
Quality Design and Build								
Test Readiness Review (TRR)								
Developmental Testing (DT-IIA)								
Eng Dev Model (EDM) Radar Delivery - Lab								
Software Delivery 1XXSW								
Preproduction Readiness Review (PRR)								
EDM Radar Delivery - Flt Related								
Milestone C (MS C)								
Operational Testing (OT-IIA)								
Start Low-Rate Initial Production I (LRIP I)								
Software Delivery 2XXSW								
Developmental Testing (DT-IIB1)								
Developmental Testing (DT-IIB2)								
Start Low-Rate Initial Production II								
Operational Testing (OT-IIB)	2Q-3Q&4Q	1Q-4Q						
Developmental Testing (DT-IIC)								
Functional Configuration Audit (FCA)								
Low-Rate Initial Production I Delivery								
Technical Evaluation (TECHEVAL)								
Physical Configuration Audit								
Operational Evaluation (OT-IIC) (OPEVAL)								
Low-Rate Initail Production II Delivery								
IOC								
Full Rate Production (FRP) Decision								
Full Rate Production Start								
First Deployment								

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